

# **Kinetics of environmental pollutants and use of test organisms**

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**Subjects code:** KEUT

**Year of Study:** 1. or 2.

**Lectures:** 20

**Exercises:** 30

**ECTS:** 6

## **Contents subjects**

Within the subject the students will be confronted with the most typical pollutants of the environment. All the pollutant groups will be sensibly formed and presented according to their frequency of occurrence in the environment. Medicines as pollutants will be presented in details. We know substances enter the environment in many different ways giving rise to endangering many organisms which are exposed to their extinction. The students will learn about many possible entries or absorptions and they will be acquainted with the processes typical when unknown substances enter organisms. One of the most relevant processes is the process of accumulation or bioaccumulation. After a detailed description of process dynamics, presentation of test organisms will follow; - invertebrates and vertebrates – and the methods of their use. An explanation of the importance of sampling environmental samples, the ways of their identification and detection methods will follow. The acquired methodology will serve as testing preparation of risk estimations (the use of results arising from the laboratory work and from literature sources) and as acquisition of basic concepts from this field.